

PATENT ABSTRACTS OF JAPAN

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(21)Application number : 05-265684 (71)Applicant : TOKIN CORP

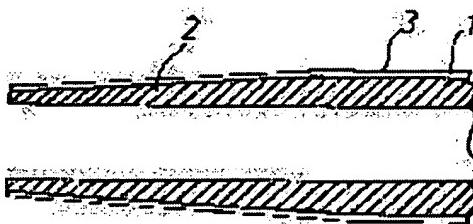
(22)Date of filing : 28.09.1993 (72)Inventor : SETO TADASHI

(54) CATHETER

(57)Abstract:

PURPOSE: To improve the resilience at the front end of the catheter consisting of a tube which is fully or partly made of a superelastic alloy and is coated with a thermoplastic resin by forming the front end of the catheter to a thickness smaller than the thickness in the other parts.

CONSTITUTION: The tube having a required outside diameter is formed by subjecting a Ti-Ni alloy tube contg. 51atm. concn. (51at.%) Ni which is known to exhibit a remarkable shape memory effect incidentally to the reverse transformation of thermoelastic martensite transformation and a superelastic effect incidentally to the shape memory effect to cold working. A sintered hard alloy wire is then inserted into the front end 2 of such tube and is subjected to swaging to pressurize the tube from its outer peripheral direction, by which a thickness gradient is formed in the longitudinal direction of the tube. The tube is then subjected to a heat treatment which is a superelastic treatment. The outer periphery is thereafter coated with the thermoplastic resin and the required catheter having the resilient introducing end is obtd.



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